

Amendments to and Listing of the Claims

Please amend claim 1 and add new claims 14-19, so that the claims read as follows:

1. (currently amended) A heat insulating system for tubular bodies, comprising at least two superimposed evacuated panels, each panel being internally evacuated and being formed essentially by an envelope containing inside thereof a discontinuous or porous filling material, each panel being rolled up around a rolling axis and having two opposed edges parallel to the rolling axis which are set side by side and having two other edges perpendicular to the rolling axis which form end edges of the rolled evacuated panel, wherein at least one of the evacuated panels ~~comprises a polymeric~~ contains a filling material consisting essentially of polymeric material and at least another evacuated panel ~~comprises an inorganic~~ contains a filling material consisting essentially of inorganic material.

2. (previously presented) The heat insulating system according to claim 1, wherein the polymeric filling material comprises open-celled polyurethane.

3. (previously presented) The heat insulating system according to claim 1, wherein the inorganic filling material is selected from the group consisting of powders, fibers and mixtures thereof.

4. (previously presented) The heat insulating system according to claim 3, wherein the fibers comprise glass fibers.

5. The heat insulating system according to claim 3, wherein the powders comprise powders of an inert material having mean particle dimensions of less than 100 nanometers.

6. (previously presented) The heat insulating system according to claim 5, wherein the powders have mean particle dimensions between about 2 and 20 nanometers.

7. (previously presented) The heat insulating system according to claim 5, wherein the inert material comprises silica.

8. (previously presented) The heat insulating system according to claim 7, wherein the silica comprises pyrogenic silica.

9. (previously presented) The heat insulating system according to claim 1, wherein the envelope of at least one of the panels comprises barrier sheets.

10. (previously presented) The heat insulating system according to claim 9, wherein the barrier sheets are multilayer sheets.

11. (previously presented) The heat insulating system according to claim 10, wherein the multilayer sheets comprise at least one metal foil between two plastic layers.

12. (previously presented) The heat insulating system according to claim 10, wherein the multilayer sheets comprise at least one metallized plastic layer.

13. (previously presented) The heat insulating system according to claim 1, wherein the rolled evacuated panels are arranged with the edges of one of the evacuated panels diametrically and longitudinally staggered with respect to the edges of another evacuated panel.

14. (new) The heat insulating system according to claim 1, wherein the at least one evacuated panel containing polymeric material further contains a getter material.

15. (new) The heat insulating system according to claim 1, wherein the at least two superimposed evacuated panels are disposed in an interspace between two tubes.

16. (new) The heat insulating system according to claim 15, wherein the at least another evacuated panel containing inorganic material is arranged in contact with a hotter of the two tubes.

17. (new) A heat insulating system for tubular bodies, comprising at least two superimposed evacuated panels, each panel being internally evacuated and being formed essentially by an envelope containing inside thereof a discontinuous or porous filling material, each panel being rolled upon around a rolling axis and having two opposed edges parallel to the rolling axis which are set side by side and having two other edges perpendicular to the rolling axis which form end edges of the rolled evacuated panel, wherein at least one of the evacuated panels comprises a polymeric foam filling material and at least another evacuated panel comprises an inorganic filling material.

18. (new) The heat insulating system according to claim 17, wherein the polymeric foam filling material comprises open-celled polyurethane.

19. (new) The heat insulating system according to claim 17, wherein the polymeric foam filling material has a form of a porous one-piece board.